

SEQUENCE LISTING

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<120> CAMBIUM/XYLEM-PREFERRED PROMOTERS AND USES THEREOF

<130> ALEL 202.1

<140> 10/593,426
<141> 2006-09-19

<150> US 60/560,227
<151> 2004-04-06

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<170> PatentIn version 3.2

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tttttttttt tttactattc ttaggagttt gtttctttt ccctagtcta caggagtttgc 300
ttagttacta tcatttctttt aaaaaggaaa ctcatatgga aaagaaaaaa ttgattaaat 360

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acaaaaaaaaatt ataaaaattac atagagttt tatttatttg aacgatttag ttaatttta 420
acttaataaa atataattaa ttacaggtaa aacaagtact tatcaatcat tataagtata 480
ttataaaaaca tattaattat gagttcagca aagatttgg ctgatttctt gtcttctta 540
aactacatgt gacaagatag aaaaacatc taaatgctaa tgatttctta atatatgact 600
atgcaagtca ttatcttat ttaaatacat taatttaat caaacttaat tttaaattat 660
tggattctaa tataattgtg tttaaaaca cttaggtgc ttccctgttg gaccggaaac 720
tggttcatga actgaaataa tctatgcgaa taacgtttc ccacaaaaag aagaacgact 780
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tggggccag taacatcacc tccttgtccc tatgtgtata tagaaagaca aacttgccaa 900
gcataaaaaaa gaagaagaag aagtcatact atatatttcc tgccttcctt ctcgacgata 960
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<210> 10
<211> 1269
<212> DNA
<213> *Populus* sp.

<220>
<221> promoter
<222> (1)...(1269)
<223> UDP-D-glucuronate carboxy-lyase (UDP) promoter

<400> 10

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ccccgtcgcc	cagggattac	aatttaattt	gaatttgcata	atatcatctc	aactaacttg	120
aatgaatattt	cttttttaa	cagttgtatt	gcttcatgga	aaataaaat	tgtatatatt	180
aggatattta	atttgcataa	aatattatca	aatatgactc	aaaacccagt	ctaataatatt	240
tatattttga	atatgataca	atataaacct	ttttagtatt	aacataatgc	atgtgttcaa	300
taaataatttt	tttttattaa	ataataaata	tggattgaat	gtcgaaaaga	gaaataaata	360
gtgtactcat	agttacccca	tgtacaagtt	gagtcacaaca	acagatgtag	tcaaaaataaa	420
agaaaaactcg	gtctgacgtg	tcgttaccat	tactgtcatt	ggacagtaaa	gtcttcgtat	480
tgtaacagaa	catgttctcc	ttctctctgg	ccagtaacga	ccgcaatta	cgcttcctcg	540
aaatttcaat	ctaaccttga	acactatata	agtatatgcc	ctgtctctca	tcatccgctg	600
tccttaaattc	ccttcaaaaat	actacaacaa	aatatttttt	tccctcaatt	tatccagca	660
gcaaaaagtct	acgtggtaat	taaaatctcaa	tttccattcg	tttttatagg	gatttttgg	720
tgtctggaga	aaaaaaataat	ggtcataggga	ttgagagatt	ttgagattca	gatctgaagt	780
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acatttcgtg	tttttgcattt	ctcatattaat	ttatgcgtcc	ctccctttct	ctctcaactag	900
ctgggtttgt	tttttgcattt	gttatttatac	atgatttagtt	gttaaccatc	tattttttaa	960
tctaaatttgg	ttacaatcga	gttcttata	taaagctgta	gtctttgagt	ttcatgactc	1020
gcagcgaaaa	aagtttgaga	ttttgcattct	attttttcac	accactcagg	tgaactggat	1080
tttattatcat	gttttaattt	gaaacttgc	ggctgggtt	atttaaaggtt	tttgatttgt	1140
gggttattta	tgaatgtgag	gattatgcata	ttttttgtt	ctgggttgc	tttacaattt	1200
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gatctgata						1269

<210> 11
<211> 1025
<212> DNA
<213> *Populus* sp.

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<220>
<221> promoter
<222> (1)...(1025)
<223> lipid transfer protein (LTP) promoter
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<400> 11

gaattcgatt acgatgaaat gaagaactga tagcataatc aatcagaaga ttgataatta 60
ttcaaaataa ttttcaac aatattcaat gcatgatgat tataatgtcg atcaataat 120
aatcaattta atgtaaaaaa ggggtactta agtaaataat aataataata ataatgaatg 180
ccttagcatc taaaattcgc tatttttaga agaatcacat tccaagcttc atgaacaatc 240
taatgttcaa tgacattga tatttttaat aattcaagaa tctcaacaat acaagaatca 300
ttggcatcgc aagatattt ccctaagcaa gctctaaaat ccccgtacaa aacatcctt 360
aaggtatata tattagttcg aaaataatta ttgttaatc ttcatgtgca gtggtagta 420
tttcggccat tcaggcggt gacccggat cgccccag caacggcgtc agtttaatt 480
tttatgtttt cttgaaagtt ttcttaattc ttggcgctgg cttttgggt ggaaggaacg 540
cgggtttgcg aaaggtaatg gccactaatt gggcaagata atggcatgtc tgggttgcgg 600
tagttggcgc aaaggggagc tttgtggtag tggtaatatt ggagttctag tcttctagag 660
accactgag atggctggat aatgagcttc aagggttaat ttgcgtgt cattaaaatg 720
gtaacatctg gatataatgca atggaatggg atgataatggc acccaaatac ccaaccttt 780
atggactgg aaagaactat aatttacaac actaatttc taaagccaag tgctgcaata 840
atatcaactt gtctctgtt gtatgtctag ccccatttt attagtggac tggcatcga 900
gttggaggttc atcttgcagt ataaaagctg tccataggag taggagcatt gcattccat 960
acagcaagaa aatcaatttgc ttcatatata tagttgagat acagaaataat ggaggctcca 1020
gatct 1025

<210> 12

<211> 2341

<212> DNA

<213> *Populus* sp.

<220>

<221> promoter

<222> (1)...(2341)

<223> ag-13 (AG13) promoter

<400> 12

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cctacacaca agaaccact agatagactt ccactggaaac catgcacat tctccgtga 180
tgacctcatt actcagttt ttctactggg gtttctgtt caaccttc tctctgttca 240
acaggcttct gtttcttctt tccttgggg cttcgactgc aaccccgct 300
tcttctgccc gtgcctcacc aggcctgtt gtctcttttag ctcctcgcac aacaggctct 360
acgggtatat ccggcttc ttttgcctcc tcaacaaccg gctctgggt ttccttaggt 420
gtctccttc tcaatgttcc tagtaccgtt ggctttctg cagcgatctt ggtctttcg 480
agcacttctt tagtttcaggc ttcaactggg gcctcggtt ctgggtccac gggctccatca 540
gatgtgcacaa ctttctctgc ttcttttggc ttttcatgag ttactgcctc tgggtgtcga 600
gtgaccgctt cttctgtggt ggtctcaacc ttgattgggt gttcattttt ttcctctaca 660
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aagaaaataaa agcaatttgac caaaaagaact ttcaaaaaaa gctatctta ttttttttt 1740
taatatttct caatatttgc ttgcactata aactagtact gtgatttct catgttaat 1800
aataataata ataataataa tcacccttaa ccaataggca taatttactt caaacaagcg 1860
aataaaaactc tgacgtggaa atttaagttt gtcccacgct ctctctcggc cattgctta 1920
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<210> 13
<211> 31
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<213> Artificial Sequence

<220>
<223> primer/oligonucleotide

<400> 13

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<210> 14
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> primer/oligonucleotide

<400> 14

caatataaaaa tcaatgaaca gcactagttt gc 32

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> primer/oligonucleotide

<400> 15

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<210> 16
<211> 24

<212> DNA
<213> Artificial Sequence

<220>
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<400> 16

ctcattttct ctc当地 gctc aaag 24

<210> 17
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<400> 17

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<400> 18

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<400> 19

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<210> 20
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<400> 20

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<400> 21

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<400> 22

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<400> 23

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cataatatca aaacttaagc 20

<210> 25
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<220>
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<400> 25

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<210> 26

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<213> Artificial Sequence

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<400> 28

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<220>

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<400> 30

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<400> 33

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<400> 34

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<400> 35

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<210> 36
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<220>
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<210> 38
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ggagcctcca tatttctgta tctc 24

<210> 39
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<400> 39

caagacgatg aaatgaagaa ctgatagc 28

<210> 40
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> primer/oligonucleotide

<400> 40

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<210> 41
<211> 26
<212> DNA
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<220>
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<400> 41

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